

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

19/676, 675

Source:

IPHO

Date Processed by STIC:

6/1/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/676,675

CRF Edit Date: 6/1/05
Edited by: KE

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ Invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

☒ Other: Corrected Amino Acid
numbering for seq ID #s 18-20.

Revised 09/09/2003

Raw Sequence Listing before editing,
for reference only



IFWO

RAW SEQUENCE LISTING

DATE: 06/01/2005

PATENT APPLICATION: US/10/676,675

TIME: 15:06:02

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06012005\J676675.raw

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3 <110> APPLICANT: KROPSHOFER, H.
4      VOGT, A.
5      ROEHN, T.A.
7 <120> TITLE OF INVENTION: Identification of novel MHC class II associated candidate
tumor
8      antigens
10 <130> FILE REFERENCE: Case 21412
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/676,675
C--> 13 <141> CURRENT FILING DATE: 2003-10-01
15 <150> PRIOR APPLICATION NUMBER: EP 02022224.6
16 <151> PRIOR FILING DATE: 2002-02-10
18 <160> NUMBER OF SEQ ID NOS: 22
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 16
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
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30 1      5      10      15
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 15
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 2
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41 1      5      10      15
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 14
46 <212> TYPE: PRT
47 <213> ORGANISM: Homo sapiens
49 <400> SEQUENCE: 3
51 Leu Gln Ser Phe Arg Gln Asp Val Asp Asn Ala Ser Leu Ala
52 1      5      10
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 14
57 <212> TYPE: PRT
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 4
62 Thr Leu Gln Ser Phe Arg Gln Asp Val Asp Asn Ala Ser Leu
63 1      5      10
66 <210> SEQ ID NO: 5
67 <211> LENGTH: 18
68 <212> TYPE: PRT

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Input Set : A:\pto.kd.txt

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69 <213> ORGANISM: Homo sapiens
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73 Asn Asp Lys Ala Arg Val Glu Val Glu Arg Asp Asn Leu Ala Glu Asp
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77 Ile Met
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 17
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 6
88 Asp Lys Ala Arg Val Glu Val Glu Arg Asp Asn Leu Ala Glu Asp Ile
89 1          5          10          15
92 Met
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 16
98 <212> TYPE: PRT
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 7
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104 1          5          10          15
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 15
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 8
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115 1          5          10          15
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 18
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 9
125 Gly Ser Ser Arg Val Leu Ile Thr Thr Asp Leu Leu Ala Arg Gly Ile
126 1          5          10          15
129 Asp Val
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 14
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 10
140 Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg Glu
141 1          5          10
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 13
146 <212> TYPE: PRT
147 <213> ORGANISM: Homo sapiens
149 <400> SEQUENCE: 11
151 Lys Ser Lys Ile Glu Asp Ile Arg Ala Glu Gln Glu Arg
152 1          5          10

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DATE: 06/01/2005

PATENT APPLICATION: US/10/676,675

TIME: 15:06:02

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06012005\J676675.raw

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155 <210> SEQ ID NO: 12
156 <211> LENGTH: 17
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 12
162 Gly Gln Asp Leu Leu Phe Lys Asp Ala Thr Val Arg Ala Val Pro Val
163 1          5          10          15
166 Gly
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 16
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 13
177 Gly Gln Asp Leu Leu Phe Lys Asp Ala Thr Val Arg Ala Val Pro Val
178 1          5          10          15
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 20
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 14
188 Cys Ala Gly Thr Gly Cys Gly Thr Gly Thr Cys Ala Gly Cys Cys Ala
189 1          5          10          15
192 Ala Gly Thr Cys
193          20
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 19
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 15
203 Thr Thr Cys Cys Cys Cys Gly Cys Cys Gly Thr Gly Thr Ala Ala Ala
204 1          5          10          15
207 Thr Gly Thr
211 <210> SEQ ID NO: 16
212 <211> LENGTH: 22
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 16
218 Ala Gly Cys Gly Thr Cys Gly Ala Cys Cys Thr Gly Cys Thr Cys Ala
219 1          5          10          15
222 Gly Cys Cys Thr Gly Gly
223          20
226 <210> SEQ ID NO: 17
227 <211> LENGTH: 24
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 17
233 Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro
234 1          5          10          15
237 Leu Leu Met Gln Ala Leu Pro Met

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RAW SEQUENCE LISTING

DATE: 06/01/2005

PATENT APPLICATION: US/10/676,675

TIME: 15:06:02

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06012005\J676675.raw

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238          20
241 <210> SEQ ID NO: 18
242 <211> LENGTH: 9
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo sapiens
246 <400> SEQUENCE: 18
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249 1          5
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 9
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 19
259 Val Glu Val Glu Arg Asp Asn Leu Ala
260 1          5
263 <210> SEQ ID NO: 20
264 <211> LENGTH: 9
265 <212> TYPE: PRT
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 20
270 Leu Phe Lys Asp Ala Thr Val Arg Ala
271 1          5
274 <210> SEQ ID NO: 21
275 <211> LENGTH: 17
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 21
281 Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser Pro Pro Pro
282 1          5              10              15
285 Tyr
289 <210> SEQ ID NO: 22
290 <211> LENGTH: 738
291 <212> TYPE: PRT
292 <213> ORGANISM: Homo sapiens
294 <300> PUBLICATION INFORMATION:
295 <308> DATABASE ACCESSION NO: swissprot/P08582
296 <309> DATABASE ENTRY DATE: 2001-10-16
297 <313> RELEVANT RESIDUES: (1)..(738)
299 <400> SEQUENCE: 22
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302 1          5              10              15
305 Val Leu Gly Gly Met Glu Val Arg Trp Cys Ala Thr Ser Asp Pro Glu
306          20              25              30
309 Gln His Lys Cys Gly Asn Met Ser Glu Ala Phe Arg Glu Ala Gly Ile
310          35              40              45
313 Gln Pro Ser Leu Leu Cys Val Arg Gly Thr Ser Ala Asp His Cys Val
314          50              55              60
317 Gln Leu Ile Ala Ala Gln Glu Ala Asp Ala Ile Thr Leu Asp Gly Gly
318 65              70              75              80

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DATE: 06/01/2005

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Input Set : A:\pto.kd.txt

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321 Ala Ile Tyr Glu Ala Gly Lys Glu His Gly Leu Lys Pro Val Val Gly
322      85      90      95
325 Glu Val Tyr Asp Gln Glu Val Gly Thr Ser Tyr Tyr Ala Val Ala Val
326      100      105      110
329 Val Arg Arg Ser Ser His Val Thr Ile Asp Thr Leu Lys Gly Val Lys
330      115      120      125
333 Ser Cys His Thr Gly Ile Asn Arg Thr Val Gly Trp Asn Val Pro Val
334      130      135      140
337 Gly Tyr Leu Val Glu Ser Gly Arg Leu Ser Val Met Gly Cys Asp Val
338 145      150      155      160
341 Leu Lys Ala Val Ser Asp Tyr Phe Gly Gly Ser Cys Val Pro Gly Ala
342      165      170      175
345 Gly Glu Thr Ser Tyr Ser Glu Ser Leu Cys Arg Leu Cys Arg Gly Asp
346      180      185      190
349 Ser Ser Gly Glu Gly Val Cys Asp Lys Ser Pro Leu Glu Arg Tyr Tyr
350      195      200      205
353 Asp Tyr Ser Gly Ala Phe Arg Cys Leu Ala Glu Gly Ala Gly Asp Val
354      210      215      220
357 Ala Phe Val Lys His Ser Thr Val Leu Glu Asn Thr Asp Gly Lys Thr
358 225      230      235      240
361 Leu Pro Ser Trp Gly Gln Ala Leu Leu Ser Gln Asp Phe Glu Leu Leu
362      245      250      255
365 Cys Arg Asp Gly Ser Arg Ala Asp Val Thr Glu Trp Arg Gln Cys His
366      260      265      270
370 Leu Ala Arg Val Pro Ala His Ala Val Val Val Arg Ala Asp Thr Asp
371      275      280      285
374 Gly Gly Leu Ile Phe Arg Leu Leu Asn Glu Gly Gln Arg Leu Phe Ser
375      290      295      300
378 His Glu Gly Ser Ser Phe Gln Met Phe Ser Ser Glu Ala Tyr Gly Gln
379 305      310      315      320
382 Lys Asp Leu Leu Phe Lys Asp Ser Thr Ser Glu Leu Val Pro Ile Ala
383      325      330      335
386 Thr Gln Thr Tyr Glu Ala Trp Leu Gly His Glu Tyr Leu His Ala Met
387      340      345      350
390 Lys Gly Leu Leu Cys Asp Pro Asn Arg Leu Pro Pro Tyr Leu Arg Trp
391      355      360      365
394 Cys Val Leu Ser Thr Pro Glu Ile Gln Lys Cys Gly Asp Met Ala Val
395      370      375      380
398 Ala Phe Arg Arg Gln Arg Leu Lys Pro Glu Ile Gln Cys Val Ser Ala
399 385      390      395      400
402 Lys Ser Pro Gln His Cys Met Glu Arg Ile Gln Ala Glu Gln Val Asp
403      405      410      415
406 Ala Val Thr Leu Ser Gly Glu Asp Ile Tyr Thr Ala Gly Lys Lys Tyr
407      420      425      430
410 Gly Leu Val Pro Ala Ala Gly Glu His Tyr Ala Pro Glu Asp Ser Ser
411      435      440      445
414 Asn Ser Tyr Tyr Val Val Ala Val Val Arg Arg Asp Ser Ser His Ala
415      450      455      460
418 Phe Thr Leu Asp Glu Leu Arg Gly Lys Arg Ser Cys His Ala Gly Phe

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VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/676,675**

DATE: 06/01/2005

TIME: 15:06:03

Input Set : **A:\pto.kd.txt**

Output Set: **N:\CRF4\06012005\J676675.raw**

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date



IFWO

RAW SEQUENCE LISTING

DATE: 05/25/2005

PATENT APPLICATION: US/10/676,675

TIME: 13:52:07

Input Set : A:\21412 sequence listing.txt

Output Set: N:\CRF4\05252005\J676675.raw

3 <110> APPLICANT: KROPSHOFER, H.
 4 VOGT, A.
 5 ROEHN, T.A.
 7 <120> TITLE OF INVENTION: Identification of novel MHC class II associated candidate
 tumor
 8 antigens
 10 <130> FILE REFERENCE: Case 21412
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/676,675
 C--> 13 <141> CURRENT FILING DATE: 2003-10-01
 15 <150> PRIOR APPLICATION NUMBER: EP 02022224.6
 16 <151> PRIOR FILING DATE: 2002-02-10
 18 <160> NUMBER OF SEQ ID NOS: 22
 20 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply
 Corrected Diskette Needed
 (pg. 1)

ERRORED SEQUENCES

241 <210> SEQ ID NO: 18
 242 <211> LENGTH: 9
 243 <212> TYPE: PRT
 244 <213> ORGANISM: Homo sapiens
 245 <400> SEQUENCE: 18
 248 Phe Arg Gln Asp Val Asp Asn Ala Ser
 E--> 249 725 5 S
 252 <210> SEQ ID NO: 19
 253 <211> LENGTH: 9
 254 <212> TYPE: PRT
 255 <213> ORGANISM: Homo sapiens
 257 <400> SEQUENCE: 19
 260 Val Glu Val Glu Arg Asp Asn Leu Ala
 E--> 260 725 5 S
 263 <210> SEQ ID NO: 20
 264 <211> LENGTH: 9
 265 <212> TYPE: PRT
 266 <213> ORGANISM: Homo sapiens
 268 <400> SEQUENCE: 20
 270 Leu Phe Lys Asp Ala Thr Val Arg Ala
 E--> 271 725 5 S

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/676,675

DATE: 05/25/2005

TIME: 13:52:08

Input Set : A:\21412 sequence listing.txt

Output Set: N:\CRF4\05252005\J676675.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number
 L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:249 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:18
 L:260 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:19
 L:271 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:20